Super-TIX® 10CUNB Ultimate

Product Datasheet

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...where performance matters

Offering greater oxidation resistance

Super-TIX® 10CUNB Ultimate - high-performance titanium explicitly developed for use in exhaust systems

Like Super-TIX® 10CU, the alloy benefits from the introduction of copper as an additional alloying element which results in solid solution hardening and low oxygen content. This addition doubles the high-temperature strength when compared with pure titanium.

Niobium is also added to improve oxidation resistance further. The alloy offers improved tensile strength when compared to CP Grade 2 and Super-TIX® 10CU. Super-TIX® 10CUNB is available to our customers in both sheet and welded tubes.

Offering superior oxidation resistance

The introduction of Niobium into the alloy production process results in a finished product with the same material characteristics as 10CU but offers better oxidation resistance.

Improvements in oxidation resistance provide engine designers with greater flexibility and choice when considering and choosing materials. The alloy also offers considerable performance advantages when compared with stainless steel.

Material Benefits

- High-temperature strength
- Good formability at room temperature
- Effective weight reduction solution
- Improved tensile strength when compared to CP Grade 2 at room temperature
- Available in both sheet and welded tube
- Improved oxidation resistance when compared to 10CU

About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including **Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC**.

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